



Product Sheet

# pBR325Amy (ATCC® 31792™)

## Geobacillus stearothermophilus

Please read this **FIRST**



### Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Geobacillus stearothermophilus* (ATCC® 31792™)

### Shipping Information

Distributed: freeze-dried

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

Designation: pBR325Amy

### Notes

Plasmid expresses a thermostable alpha-amylase.  
- U.S. Pat. 4,493,893 dated Jan. 15, 1985

.patent  
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### Distributed In

Distribution host: Escherichia coli RR1; K-12 RR1  
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### Insert Information

DNA: genomic  
DESCRIPTION OF INSERT COMPONENT:  
Genome: Bacillus stearothermophilus  
Gene name: alpha-amylase  
Contains complete coding sequence?: U  
Strain: N21  
Type of DNA: genomic  
Insert end: HindIII  
Insert end: HindIII  
Insert size (kb): 5.4  
Cross references:  
DESCRIPTION OF INSERT COMPONENT:  
Genome: Bacillus stearothermophilus  
Gene name: alpha-amylase  
Contains complete coding sequence?: U  
Strain: N21  
Type of DNA: genomic  
Insert end: HindIII  
Insert end: HindIII  
Insert size (kb): 5.4  
Cross references:  
Insert lengths(kb): 5.400000095367432  
Gene product: amylase, alpha 1A; salivary(Amylase, salivary, alpha-1A)  
Target Gene: amylase, alpha 1A; salivary

### Vector Information

Construct size (kb): 11.19999980926514  
DESCRIPTION OF VECTOR COMPONENT:  
Name of vector: pBR325  
Intact vector size: 5.996  
Type of vector: plasmid  
Vector end: HindIII  
Vector end: HindIII  
Cloning sites: AatII AsuII Aval ClaI HgiEII HindIII Tth111I BamHI EcoRI  
EcoRV (MstI-Cm?) NcoI PstI PvuI Sall SphI XmaII XmnI  
Polylinker sites:  
Host range: Escherichia coli  
Features (with orientation and position when available):  
marker(s): ampR, cmlR, tetR  
replicon: pMB1  
Cross references:



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Polylinker sites:  
Host range: Escherichia coli  
Features (with orientation and position when available):  
marker(s): ampR, cmlR, tetR  
replicon: pMB1  
Cross references:

### Propagation

#### Growth Conditions

**Temperature:** 37.0°C

#### Medium

ATCC® Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

### References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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